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THE CLAIMS

We claim:

A golf ball comprising:

a core comprising:

a solid center made from a first rubber based material;

a solid outer layer made from a second rubber based material having different physical properties from said first rubber based material;

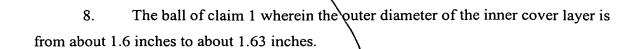
a cover comprising:

10 an inner cover layer made from an ionomer material having a first shore D hardness and having an outer diameter of at least 1.58 inches;

an outer cover layer made from a thermoset material having a second shore D hardness less than the first.

- The ball of claim 1 wherein the outer cover layer has a hardness from about 15 2. 30 shore D to about 60 shore D.
 - 3. The ball of claim 2 wherein the outer cover layer has a hardness from about 40 shore D to about 60 shore D.
 - 4. The ball of claim 3 wherein the outer cover layer has a hardness from about 50 shore D to about 60 shore D.
- The ball of claim 1 wherein the inner cover layer has a flexural modulus of 5. 25 about 65,000 psi or more.
 - The ball of claim 5 wherein the inner cover layer has a hardness from about 6. 65 shore D to about 74 shore D.
- 30 7. The ball of claim 6 wherein the inner cover layer has a hardness from about 68 shore D to about 72 shore D.

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- 9. The ball of claim 8 wherein the outer diameter of the inner cover layer is from about 1.62 inches to about 1.63 inches.
 - 10. The ball of claim 1 wherein the center has an outer diameter from about 0.75 inches to about 1.3 inches.
- 10 11. The ball of claim 10 wherein the center has an outer diameter from about 1 inch to about 1.15 inches.
 - 12. The ball of claim 1 wherein the outer diameter of the core outer layer is from about 1.55 inches to about 1.58 inches.
 - 13. The ball of claim 1 wherein the core outer layer has a first crosslinking agent in an amount from about 20 to about 40 parts per hundred of rubber.
- 14. The ball of claim 13 wherein the amount of first crosslinking agent in the core outer layer is from about 30 to about 38 parts per hundred of rubber.
 - 15. The ball of claim 13 wherein the core outer layer has from about 10 to about 17 parts of balata per hundred parts of rubber.
- 25 16. The ball of claim 1 wherein the center has a second crosslinking agent in an amount from about 15 to about 25 parts per hundred of rubber.
 - 17. The ball of claim 16 wherein the amount of second crosslinking agent in the center is from about 19 to about 25 parts per hundred of rubber.

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A golf ball comprising:

a core comprising:

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a solid center made from a first rubber based material;
a solid outer layer made from a second rubber based material having different physical properties from said first rubber based material;

a cover comprising an inner cover layer made from a material having a first shore D hardness from about 65 shore D to about 74 shore D and having an outer diameter of at least 1.6 inches;

an outer cover layer made from a thermoset material having a second shore D hardness less than the first.

- 10 19. The ball of claim 18 wherein the outer cover layer has a hardness of from about 30 shore D to about 60 shore D.
 - 20. The ball of claim 19 wherein the inner cover layer material has a hardness from about 68 shore D to about 72 shore D.
 - 21. The ball of claim 20 wherein the outer cover layer has a hardness from about 40 shore D to about 60 shore D.
- 22. The ball of claim 21 wherein the hardness of the outer cover layer is from about 50 shore D to about 60 shore D.

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